SOURCE: (C) WPI / DERWENT

AN : 85-131721 ¢22!

MC : A08-R01 A12-S08

PN : JP60069161 A 850419 DW8522

PR : JP830176947 830927

PA : (TOKE ) TOSHIBA KK

DC : A32

IC : C08F2/44 ;C08G85/00 ;C08L101/00

TI : Fibre-composite resin compsn. - comprising thermosetting resin, fibrous filler and particles having harder surface than fibres

AB : J60069161 Compsn. contains (A) thermosetting resin which is liq. at the kneading temp., (B) fibrous filler having aspect ratio of 50 or more and (C) particles, the surface of which is harder than (B). Content of (B) is at least 20 vol.%.

- Compsn. is prepd. by dispersing at least 1 of (B) in (A) in the presence of (C) and kneading.
- Pref. (claimed) after kneading, resin, curing agent, catalyst, other filler and other organic liq. are added and compsn. is formed into solid mouldings by moulding, injecting, coating, etc. After kneading the compsn., compsn. is washed with solvent dissolving (A) and is moulded into a solid moulding. Resins (A) are, e.g., epoxy, (un)satd. polyester, phenol, urea, silicone resin, etc. Fillers (B) include inorganic e.g. glass, carbon, boron fibre, etc. organic, e.g., cellulose, polyamide, polyester fibre, etc. Particles (C) are, e.g., metallic, inorganic particles, etc. when (B) is organic fibre and, e.g., metallic particles which have higher Moh hardness, etc. when (B) is metallic fibre.
- USE/ADVANTAGE - Compsn. provides mouldings having high strength by mechanochemically bonding (A) at the surface of (B). (6pp Dwg.No.0/0)